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IT IS CLAIMED:

- 1. In a method of treating a disease condition in a mammal responsive to treatment by interferon-tau (IFN τ), an improvement comprising orally administering a therapeutically-effective amount of IFN τ .
- 2. The method of claim 1, wherein IFNτ is orallyadministered at a dosage of between about 1x10⁵ and about 1x10⁸
 units per day.
 - 3. The method of claim 2, wherein IFNt is orally-administered at a dosage of between about 1x10⁶ and about 1x10⁷ units per day
 - 4. The method of claim 1, wherein the orally-administered IFN τ is ovine IRN τ (OvIFN τ).
 - 5. The method of claim 1, wherein said OvIFN τ has the sequence represented as SEQ ID NO:2.
 - 6. The method of claim 1, wherein the orally-administered IFNT is human IFNT (HuIFNT).
 - 7. The method of claim 1, wherein said HuIFN τ has the sequence represented as SEQ ID NO:4.
 - 8. The method of claim 1, wherein said mammal is a human.
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- 9. The method of claim 1, wherein said mammal is a dog.
- 10. The method of claim 1, wherein said disease condition is an immune system disorder.
- 35 11. The method of claim 10, wherein said disease condition is an autoimmune disorder.

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- 12. The method of claim 11, wherein said autoimmune disorder is selected from the group consisting of multiple sclerosis, type I (insulin dependent) diabetes mellitus, lupus erythematosus, amyotrophic lateral sclerosis, Crohn's disease, rheumatoid arthritis, stomatitis, asthma, allergies and psoriasis
- 13. The method of claim 12, wherein said autoimmune disorder is selected from the group consisting of multiple sclerosis, rheumatoid arthritis, lupus erythematosus and type I diabetes mellitus.
- 14. The method of claim 13, wherein said autoimmune disorder is multiple sclerosis.
- 15. A method of treating an autoimmune disorder in a subject, comprising
- orally administering a therapeutically-effective amount of interferon-tay (IFNt) to said subject.
- The method of claim 15, wherein said autoimmune disorder is selected from the group consisting of multiple sclerosis, rheumatoid arthritis, lupus erythematosus and type I diabetes mellitus.
- 17. A method of claim 16, wherein said autoimmune disorder is multiple sclerosis.
- 18. The method of claim 15, wherein IFNt is orally-administered at a dosage of between about 1x10⁵ and about 1x10⁸ units per day.
- 19. The method of claim 18, wherein IFN τ is orally-administered at a dosage of between about $1x10^6$ and about $1x10^7$ units per day.

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